

## **Highway Design Manual (Volume I) List of Major Revisions to Chapter 09**

### **1. Introduction**

- a. Added reference to Title 23 Code of Federal Regulations (CFR) 645 Utilities and 646 Railroads as the guiding federal requirements for accommodating utilities and railroads.
- A. General**
  - a. Added additional Bureaus with which to coordinate utility issues.
- B. Jurisdiction**
  - a. No major changes.
- C. Reimbursement**
  - a. Removed and clarified wording regarding reimbursement.

### **2. Responsibility**

- A. Utility**
  - a. Updated Federal Regulation reference.
- B. Bureau of Highway Design and Bridge Design**
  - a. Changed heading to “Design Coordination” to incorporate other Bureaus and Departments that involve Utility/Railroad Coordination in the design process.
  - b. Included the additional Bureaus and Departments that involve Utility/Railroad Coordination.
- C. Bureau of Construction**
  - a. No major changes.
- D. Bureau of Right-of-Way**
  - a. No major changes.

### **3. Procedure**

- A. Highway Projects**
  - a. Updated to better describe the utility coordination process during design.
- B. Lighting**
  - a. Minor modifications to materials needed for lighting design and the references to design manuals.
- C. State Force Account Projects**
  - a. No major changes.
- D. Railroad Grade Crossing Projects**
  - a. Changed heading to “Railway-Highway Grade Crossing Projects”.
  - b. No major changes.
- E. Railway Grade Separation**
  - a. No major changes.
- F. Utility or Railroad Force Account Projects**
  - a. No major changes.

**4. Location and Design**

A. Updated list of additional designer reference material.

**B. Subsurface Utility Engineering (SUE)**

a. Added this section regarding the use of Subsurface Utility Engineering.

**5. Traffic Control**

a. No major changes.

**6. Utility Coordination Process**

a. Became Appendix 9-2.

**7. References**

a. New section.

**8. Appendix**

a. Updated Appendix 9-1 Utility/Railroad Coordination Process.

b. New Appendix 9-2 Utility/Railroad Coordination Process (Scheduling Guidelines) moved from within chapter and updated.

c. New Appendix 9-3 Force Account Agreement Process.

d. Updated and renumber Utility Request form to be Appendix 9-4.

e. New Appendix 9-5 Utility & Railroad Certificate Template